

***Federation Management  
Technical Exchange***

# Background - Technical Exchanges

- **HLA evolution is based on feedback from users**
- **Important to establish a mechanism for capturing user experiences in areas of specific interest**
  - **Technical exchanges are a mechanism to identify and explore potential issues**
  - **Share information on plans and results of issue investigations**
  - **Results are reported back to the AMG**
- **Technical exchanges was held since the last AMG**
  - **Federation Management**
  - **Data Distribution Management**

# **Federation Management Technical Exchange**

- **Held on 30 January, at DMSO**
- **~20 participants**
- **Included representatives of programs involved in training, testing, and acquisition applications of HLA**
- **Focus of this exchange was on the Management Object Model**
- **Presentations from**
  - **Implementation of MOM in RTI F.0 - Richard Weatherly**
  - **Use of MOM in STOW - Jim Calvin**
  - **Federation Monitor experience and Plans - Ron Sell**
- **Presentations are posted on the DMSO homepage**

# MOM Background

- **MOM document provides a description of management data to be provided by the RTI to support federation management and operations**
  - **Adopts the approach of using HLA components (OMT, IF) to support exchange of management data**
  - **Allows for extension of management data in a particular federation to incorporate additional data to be provided by the federates**
- **Developed as the results of a small task team looking at this issue based on experience with management and operations of various distributed simulation systems and the experience of the protofederations**
  - **DI/IITSEC, SIMNET, ALSP, JPSD, STOW**
- **RTI F.0 implements a subset of the items as a basis for assessing the technical feasibility, usability of the approach**
  - **STOW and the Federation Monitor Tools are two initial users**

# MOM Status and Plans

- **MOM Document Version 0.2 is on the homepage**
- **RTI F.0 with selected MOM capabilities (described in RTI F.0 Users documentation) is available for use and feedback**
- **Interested in identifying added users of MOM in RTI F.0**
  - **Federate Interface testing system is another example**
  - **Solicit input for AMG members and others, request on HLA\_online**
- **Feedback on document is welcome at anytime**
- **Future federation management technical exchange will focus on experience with MOM**

## **MOM Direction**

- **Ideally MOM would become a required capability of any RTI**
  - **Tools developed using MOM would be independent of the RTI implementation**
- **Decision to include MOM as an RTI requirement should be based on sufficient experience with its use and a determination of**
  - **what data should be required (only that available uniquely from the RTI, data that the RTI can most efficiently provide, any data the RTI could provide...)**
  - **form that data would be provided (via MOM approach or added IFs..)**
  - **assessment of impact on RTI implementation (should not add costs to those who do not use it)**
- **Propose we consider this as an issue to be addressed by the AMG, focus on August or February checkpoint**

# Plans For Other Federation Discussion

- **Two other potential issues have been raised in the federation management technical discussions**
  - **Support for combined federations (for security and other reasons)**
  - **Multiple connections to the RTI from one federate (ala CCTT in PPF)**
- **At the first technical exchange, some examples of were presented of circumstances where these applications would be found (SBD, CCTT/WARSIM, Security Architecture)**
  - **Efforts are underway to develop/assess such applications using the current HLA capabilities**
- **Plan is to revisit these issues once there is some more actual experience**
  - **Because MOM is likely to be implicated in these more complex HLA application, MOM discussions were seen as an appropriate added element to have out for discussion**
- **Next Federation Management technical exchange will revisit these issues; target date is March 17th**